

ABSTRACT OF THE DISCLOSURE

In order to perform high efficient cooling without boiling cooling liquid and to improve maintainability such as replacement of a lamp, the present invention provides a liquid crystal projector including a light source lamp, a liquid crystal panel, a power source, a fan for removing heat generated by the power source and the lamp, a water-cooling jacket provided on an inner surface of an external wall portion opposed to the lamp in the liquid crystal projector, a metal pipe arrangement for radiation which is placed in the external wall portion, and a pump for driving cooling liquid to flow in the water-cooling jacket so that the cooling liquid receiving the heat from the lamp circulates in a circulation path through the water-cooling jacket, the metal pipe arrangement, and the pump to emit the heat to the outside through the metal pipe arrangement.